Express5800/320La
System Release Notes

PN: 455-01623-003

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Express5800/320La
System Release Notes

The *Express5800/320La System Release Notes* provide up-to-date information on your system. These notes also provide additional valuable information about your system that was not included in the user's guide at the time of its release.

Please read these notes in their entirety.

CONTENTS

Introduction 3
Operating System 3
Advisories 3
- EXPRESSBUILDER 3
- BIOS and SCSI ID Settings 3
- TCP/IP Protocol Settings for Windows 2000 4
- Disk Failure Prediction (S.M.A.R.T) 4
- SCSI Controller Errors 4
- Configuring the APC SNMP Management Card for Windows 2000 5
- System Hardware 6

Documentation Errata 7
- Express5800/ft Series EXPRESSBUILDER User's Guide 7
- Express5800/320La/320La-R User's Guide 13
- Express5800/320La/320La-R Service Guide 15

Introduction

These System Release Notes cover the following topics:

- Operating System
- Advisories
- Documentation Errata

Operating System

Your server supports Microsoft® Windows® 2000 Advanced Server with Service Pack 3 and above and also Ft Linux. No other operating systems are supported at this time.

Advisories

This section contains advisories on EXPRESSBUILDER, BIOS, SCSI ID settings, TCP/IP protocol settings, disk failure prediction, SCSI controller errors and system hardware.

EXPRESSBUILDER

The following advisory applies to EXPRESSBUILDER.

- Install Windows 2000 Operating System using the Ft Server Setup function on EXPRESSBUILDER. Do not attempt to install the operating system manually.

BIOS and SCSI ID Settings

The following advisories apply to BIOS and SCSI ID settings.

- Before you install Windows 2000 Operating system, run BIOS Setup and set *Boot Monitoring* to **DISABLE**. After the operating system is completely installed, run BIOS Setup again and set *Boot Monitoring* to **ENABLE**. Refer to your user's guide for information on running BIOS Setup.
- The SCSI ID of the Host Bus Adapter (HBA) on SCSI bus 1 is set to ID 6 at the factory. If the SCSI BIOS defaults are loaded, the SCSI ID of the Host Bus Adapter (HBA) on SCSI bus 1 must be reset to 6. In addition, ensure greater than 4Gbyte addressing is enabled to allow disk sizes larger than 4GB on both controllers. Updated procedures for enabling greater than 4Gbyte addressing are provided in these System Release Notes.

TCP/IP Protocol Settings for Windows 2000

If you have computers that communicate with the NEC EXPRESS5800/ft server using TCP/IP protocols, you must make several settings to your ft server to allow communications without interruptions. These setting changes must also be made in all clients connected to the EXPRESS5800/ft server via the network.

> ***Note:*** If Windows 2000 Advanced Server is preloaded on your system, you do not need to perform this procedure on your ft server. However, this procedure should be performed on all computers connected to your ft server.

1. Power up the server and its peripherals.
2. Insert the EXPRESSBUILDER CD disk in the CD-ROM drive. Immediately press and hold down the Shift key to prevent auto start.
3. In Windows Explorer or My Computer, locate the CD-ROM drive (labeled 2001 ag) containing the EXPRESSBUILDER CD disk.
   - Locate the **WinNT** folder and double click on it.
   - Double click on **W2K**.
   - In the W2K folder, find and copy **Ftreg.exe** into an arbitrary directory on your hard drive.
4. Activate the command prompt, enter the directory containing the above file copy, and then execute the following command:

   ```
   FTREG.EXE
   ```

   Executing FTREG.EXE makes changes to your system registry to avoid a timeout during initial communications between the NEC EXPRESS5800/ft server and computers on the network using TCP/IP protocols.

Disk Failure Prediction (S.M.A.R.T)

Disk failure prediction S.M.A.R.T (Self-Monitoring Analysis and Reporting Technology) is not supported. When running the ft Server Utility, do not enable “Disk Failure Prediction (S.M.A.R.T.).”

SCSI Controller Errors

During a tape backup, the Event Log may record an erroneous sraql180 SCSI controller error. The error description is “the driver detected a controller error on \Device\SCSI\sraq1801. If the detailed data includes word “f0030015,” ignore this error as the tape backup is functioning normally.

The Event Log may occasionally record an erroneous sraql160 SCSI controller error. The error description is “the driver detected a controller error on \Device\SCSI\sraq1602. If the detailed data includes word “f0030015 or f0030004,” and this error occurs only once or twice a week, ignore this error as it is caused by hard disk drive operating system interaction and is self-correcting. If however, your ft Server is experiencing ten or more such errors in a week, a hard disk drive error is suspected. Contact your technical support representative.

Configuring the APC SNMP Management Card for Windows 2000

These instructions detail the configuration of the 320La server with the APC SmartUPS, NEC order number 050-02049-000.

1. Install the SNMP management card into the UPS. Refer to the APC installation manual that came with the card for instructions.
2. Configure the IP address of the management card. Note this may require connection of the serial cable from the server to the UPS, and then removal once configuration has been completed. The IP address of the SNMP management card should be on the same subnet as the 320La server. For additional information regarding configuring the IP address of the SNMP card via serial connection, refer to the manual that came with the card.
3. Connect the SNMP management card to the network.
4. Using a web browser on the 320La server, type in the IP address configured in step 2. The APC SNMP login screen displays.
5. Login to the APC SNMP card using “apc” for both the username and password. The “APC Web-SNMP Management Card” menu displays.
6. On the left side of the display screen, click on “Events,” then “Recipients” and configure the trap receivers for the SNMP community by entering the IP address of the management station in the Receiver NMS IP field. Be sure to click apply when done.
7. On the left side of the display screen, click on “Network” and then “SNMP” to configure the community name and Receiver NMS IP address. Access control should be set to write. Be sure to click apply when done.
8. Download and install the free software package “APC PowerChute Network Shutdown”. This software can be found at the following URL: http://www.apcc.com/tools/download/
9. Once installed, access the user interface via the start menu. (Start | Programs | PowerChute network shutdown | user interface).
10. Login using “apc” as both the username and password. The “PowerChute Network Shutdown” menu displays.
11. On the left side of the display screen, click on “ Configure Events” then the “Change Settings” button.

12. Select both the “Communication: Lost while on battery” and “UPS: On Battery” entries in the list. (For multiple selections, hold down the control key while clicking with the mouse. Additional events may be configured later as required).

13. Click next and ensure “logging” is enabled.

14. Click next and select “user notification” as required.

15. Click next and specify “command line,” if required.

16. Click next and place a check mark in the box for “Yes, I want to shut down the system.”

17. Click next, then click “finish.”

18. Configuration is complete. When the UPS detects a power utility failure, it will notify the management station, as well as shut down the system.

System Hardware

The following advisory applies to the USB connections on your server.

- If you unplug the keyboard or mouse cable from the USB port on your system, do not reinsert the cable for at least 10 seconds.

Documentation Errata

Express5800/ft Series EXPRESSBUILDER User's Guide

Please note the following corrections to the *Express5800/ft Series EXPRESSBUILDER User's Guide, 456-01574-001*.

Chapter 2 – Initial Setup

Initial Setup procedures have changed. Use the following procedures for performing "Initial Setup" before performing the Windows 2000 Advanced Server installation.

> **Note:** If Windows 2000 Advanced Server is preloaded on your system, you do not need to perform these Initial Setup Procedures.

Initial Setup

Perform the initial setup procedures before performing the Windows 2000 Advanced Server installation. Initial setup will perform the following functions.

- Enable the greater than 4Gbyte disc geometry in each PCI module
- Change the system BIOS setting to disable Boot Monitoring.

1. Power down the server.
2. Ensure the mouse, keyboard and monitor are connected to the server.
3. Disconnect PCI module 1 from the system backplane.
   - Unlock and open the front door on the tower cabinet or front covers on the rack-mount system. Refer to Chapter 4 of your System User's Guide for information on opening the system front door or system front covers.
   - Unscrew the knurled screw securing the locking handle to the PCI module 1. See Figure 2-1.

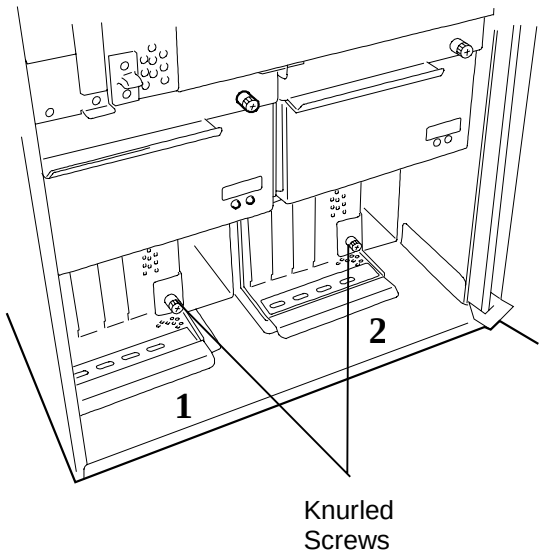


Figure 2-1. Removing the Knurled Screw Securing the Locking Handle

- Pull the locking handle all the way up to its unlocked position. See Figure 2-2.

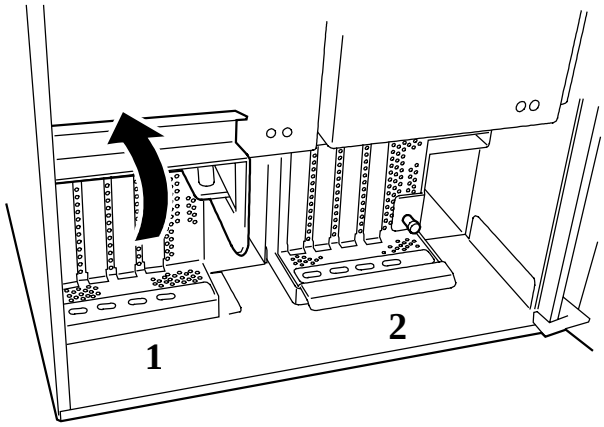


Figure 2-2. Releasing the Locking Handle and PCI Module

- Using the locking handle, pull the PCI module out of the chassis just enough to disconnect the module from the system backplane.

4. Power up the server.
5. At the startup screen, when prompted, press **F2** to enter the BIOS Setup and disable Boot Monitoring.
   - Select **Advanced** on the BIOS Setup Main Menu.
   - Select **Monitoring Configuration** and press **Enter**.
   - Select **Boot Monitoring** and change the setting to **Disabled** to disable Boot Monitoring.

- Press **Esc**, select **Exit**, and select **Save Changes & Exit**. Press **Yes** at the Setup Configuration Screen. The BIOS changes are saved and the system reboots.

6. Enable the greater than 4GB disc geometry in PCI module 2 as follows.
   - As the system reboots, watch for the message "Press Alt Q to enter "Qlogic Fast!UTIL." When you see the message, press **Alt Q**. The **Fast! UTIL Options** screen displays.
   - Select **Select Host Adapter** and press **ENTER**. The **Select Host Adapter** screen displays.
   - Select **QLA12160 Ultra 3** and press **ENTER**. The **Fast!UTIL Options** screen displays.
   - Select **Configuration Settings** and press **ENTER**. The **Configuration Settings** screen displays.
   - Select **Host Adapter Settings** and press **ENTER**.
   - Select **>4Gbyte Addressing** and change the setting to **Enabled**.
   - Press **Esc** until the "Configuration settings modified" box displays. Select **Save Changes** and press **Enter**. Press **Esc** and the Exit Fast!UTIL box is displayed.
7. Power down the system.
8. Ensure that the locking handle on the front of the PCI module 1 is in the up unlocked position. See Figure 2-3.
9. Carefully slide PCI module into the chassis until it is firmly seated in its connector.
10. Swing the locking handle all the way down to its locked position.

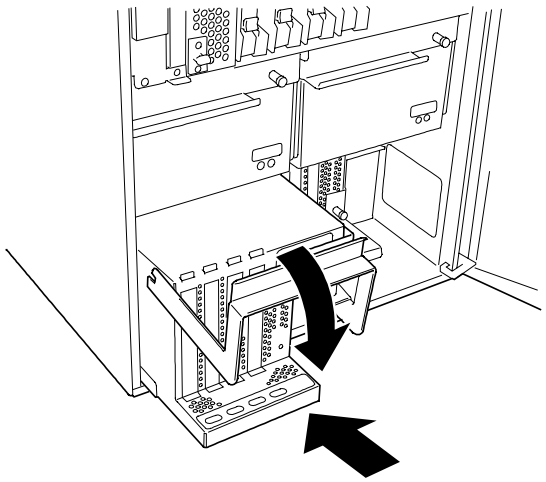


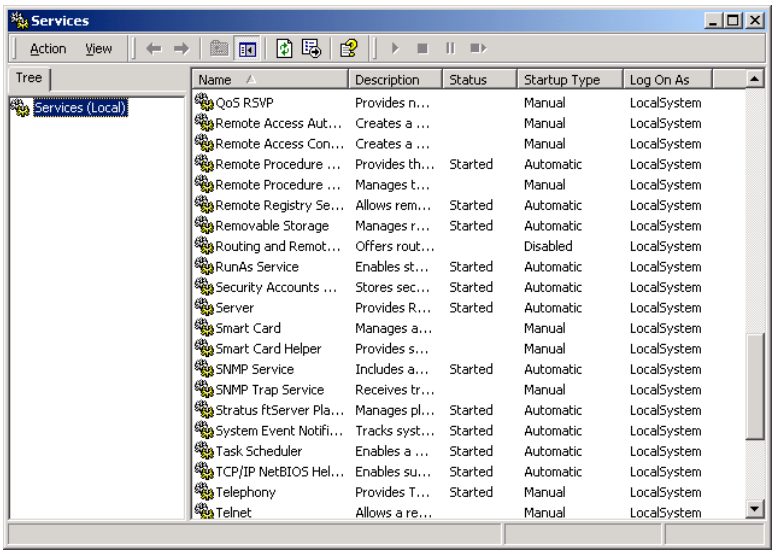
Figure 2.3. Securing the Locking Handle of the PCI Module

11. Tighten the knurled screw that fastens the locking handle to the PCI module.
12. Following instructions in Step 3 above, disconnect PCI module 2 from the system backplane.
13. Power up the system.
14. Enable the greater than 4GB disc geometry in PCI module 1 as follows.
    - As the system reboots, watch for the message “Press Alt Q to enter “Qlogic Fast!UTIL.” When you see the message, press **Alt Q**. The **Fast! UTIL Options** screen displays.
    - Select **Select Host Adapter** and press **ENTER**. The **Select Host Adapter** screen displays.
    - Select **QLA12160 Ultra 3** and press **ENTER**. The **Fast!UTIL Options** screen displays.
    - Select **Configuration Settings** and press **ENTER**. The **Configuration Settings** screen displays.
    - Select **Host Adapter Settings** and press **ENTER**.
    - Select **>4Gbyte Addressing** and change the setting to **Enabled**.
    - Press **Esc** until the “Configuration settings modified” box displays. Select **Save Changes** and press **Enter**. Press **Esc** and the Exit Fast!UTIL box is displayed.
15. Power down the system.
16. Following instructions in Steps 8 through 11 above, install PCI module 2 into the system.
17. Power on the system. 4GB disc geometry is configured in each PCI module.

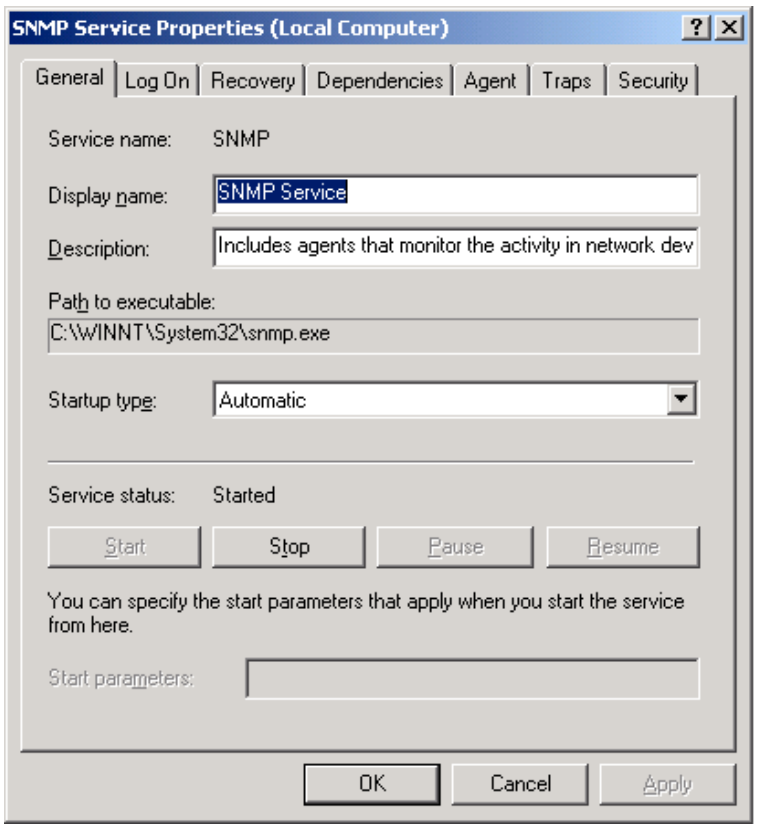
Chapter 2 – Changing SNMP Service Properties

Add the follow procedures to the end of Chapter 2 in the *Express5800/ft Series EXPRESSBUILDER User's Guide, 456-01574-001.*

1. At the Windows desktop, select **Programs** – **Administrative Tools** – **Services**. The dual-pane Services window displays.

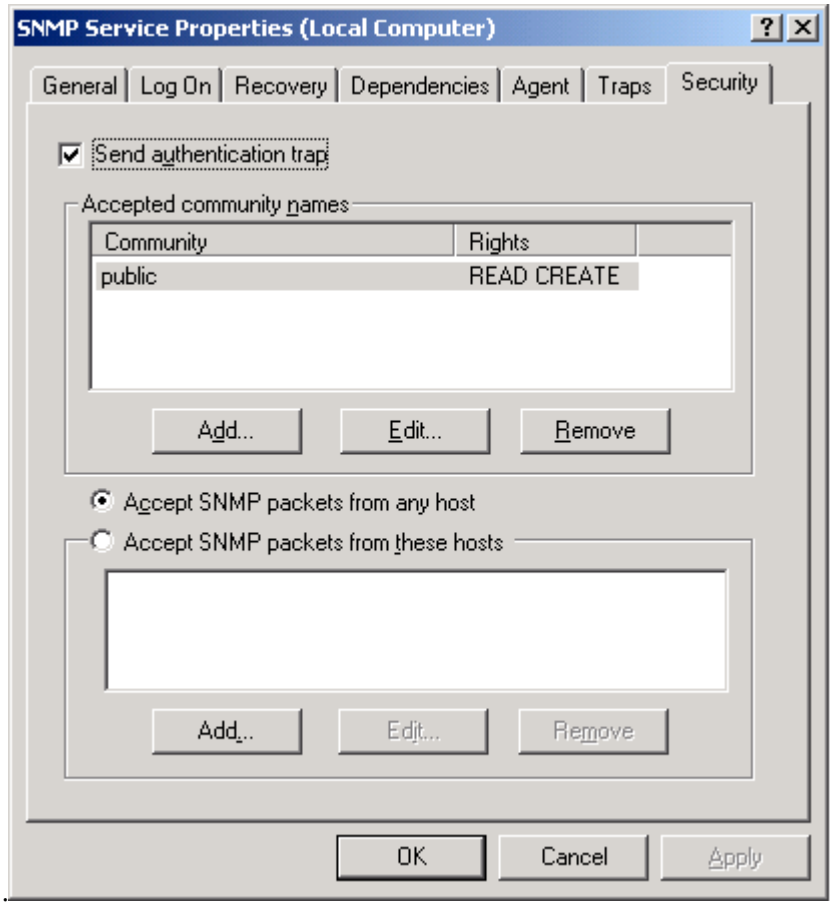

Services
Action View
Tree
Services (Local)
Name Description Status Startup Type Log On As
QoS RSVP Provides n... Manual LocalSystem
Remote Access Aut... Creates a ... Manual LocalSystem
Remote Access Con... Creates a ... Manual LocalSystem
Remote Procedure ... Provides th... Started Automatic LocalSystem
Remote Procedure ... Manages t... Manual LocalSystem
Remote Registry Se... Allows rem... Started Automatic LocalSystem
Removable Storage Manages r... Started Automatic LocalSystem
Routing and Remot... Offers rout... Disabled LocalSystem
RunAs Service Enables st... Started Automatic LocalSystem
Security Accounts ... Stores sec... Started Automatic LocalSystem
Server Provides R... Started Automatic LocalSystem
Smart Card Manages a... Manual LocalSystem
Smart Card Helper Provides s... Manual LocalSystem
SNMP Service Includes a... Started Automatic LocalSystem
SNMP Trap Service Receives tr... Manual LocalSystem
Stratus ftServer Pla... Manages pl... Started Automatic LocalSystem
System Event Notifi... Tracks syst... Started Automatic LocalSystem
Task Scheduler Enables a ... Started Automatic LocalSystem
TCP/IP NetBIOS Hel... Enables su... Started Automatic LocalSystem
Telephony Provides T... Started Manual LocalSystem
Telnet Allows a re... Manual LocalSystem

2. Scroll down the list in the right-hand pane and double-click on **SNMP Service**. The SNMP Service Properties (Local computer) window displays.

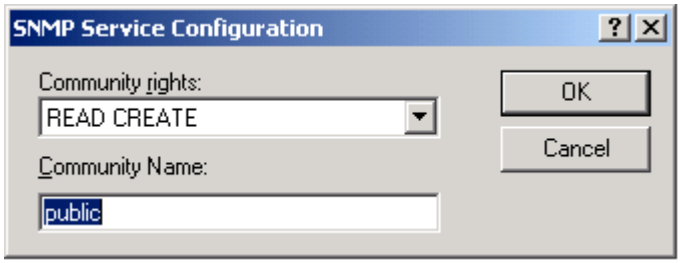

SNMP Service Properties (Local Computer)
General Log On Recovery Dependencies Agent Traps Security
Service name: SNMP
Display name: SNMP Service
Description: Includes agents that monitor the activity in network dev
Path to executable:
C:\WINNT\System32\snmp.exe
Startup type: Automatic
Service status: Started
Start Stop Pause Resume
You can specify the start parameters that apply when you start the service from here.
Start parameters:
OK Cancel Apply

3. Select the **Security** tab.

4. In the Accepted Community names window, highlight **"public"** community.



5. Click on **Edit**. The SNMP Service Configuration window opens.



6. Click on the scroll down arrow and select **Read/Write**. Click **OK**.
7. Click on **Apply** at the bottom of the SNMP Services Properties window. Click OK.
8. Close the Services window.
9. Reboot your computer.

Express5800/320La/320La-R User's Guide

Please note the following corrections to the *Express5800/320La/320-R User's Guide, 456-01572-000.*

- All Chapters

  Remove all references to "adding additional processors." Your system is multiple processor capable, however adding additional processors to your system is not currently supported.

- Preface

  Replace the Lithium Battery Warning located in the "Safety Notices" section with the following text:

> **⚠WARNING**
>
> Lithium batteries can be dangerous. There is danger of explosion if the battery is replaced incorrectly or replaced with a battery of the wrong type. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions or as required by local ordinance.

- Chapter 1

  Page 1-3 - Remove the second last bulleted text on this page – "Hardware monitors (temperature and voltage) and software monitors to indicate failures." This bulleted text was erroneously duplicated on this page.

  Page 1-5, External View – Change the text "Figure 1-5 shows the front chassis features and controls" to "Figure 1-4 shows the front chassis features and controls."

  Page 1-13, Customer Replaceable Units (CRUs) – Change "Table 1-8 lists the CRUs and whether they are hot pluggable or redundant hardware components" to "Table 1-7 lists the CRUs and whether they are hot pluggable or redundant hardware components."

- Chapter 2

  Page 2-11, Step 2 – Add "See Figure 2-8."

  "Assembly" section, Replace or update the following Warning/Caution text:

  ANCHOR THE EQUIPMENT RACK: Add the following text to this Warning: "The heaviest equipment should be installed at the bottom of the rack."

Add the following Warning to this section:

CIRCUIT OVERLOADING: Consider the current drain of equipment connected to the supply circuit and the effect of overloading of circuits might have on overcurrent protection and supply wiring. Refer to equipment nameplates for power and current ratings.

Replace the "Temperature Caution" text with the following text:

⚠ CAUTION

Temperature: If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than the room ambient temperature. The operating temperature of the server unit, when installed in an equipment rack, must not go below 5 °C (41 °F) or rise above 35 °C (95 °F). Extreme fluctuations in temperature can cause a variety of problems in your server. It is recommended that the ambient temperature for a rack-mount unit not exceed 25°C.

- Chapter 4

  Pages 4-23, 4-25, 4-26, and 4-27 - Change "Fan #1" references to "Fan A."

  Page 4-25, Step 3 – Change "See Figure 4-24" to "See Figure 4-29."

  Page 4-26, Step 4 – Change "See Figure 4-25" to "See Figure 4-30."

  Page 4-26, Step 5 – Change "See Figure 4-26" to "See Figure 4-31."

  Page 4-26, Step 9 – Change "See Figure 4-28" to "See Figure 4-32."

  Page 4-33, Step 4 – Change "See Figure 4-40" to "See Figure 4-41."

  Page 4-38, Step 4 – Add "See Figure 4-49."

  Page 4-47, - Change "Step 2" to "Step 3."

  Page 4-62, Step 9 – Add "See Figure 4-76."

- Chapter 5, Page 5-3

  Change references in the bulleted text from “Chapter 4, Upgrading Your System” to “Chapter 4, CRU Replacement and Upgrades.”

  Page 5-19, - Change “Table 5-2” to “Table 5-1.”

  Change the second-last bulleted text on this page to read: “Are all drivers properly installed? For information about installing drivers, refer to your *Express5800/Ft Series EXPRESSBUILDER User’s Guide*.

- Glossary

  Remove the Glossary entry “DOS” and add the Glossary entry “Disk Mirroring” as follows:

  > Disk Mirroring – A method in which data is written to two duplicate disks concurrently. Consequently if one of the disks fails, the system will automatically switch to the other disk without any loss of data or service.

Express5800/320La/320La-R Service Guide

Please note the following corrections to the Express5800/320La/320-R Service Guide, 456-01573-000.

- Preface

  Replace the Lithium Battery Warning located in the “Safety Notices” section with the following text:

  ⚠WARNING

  Lithium batteries can be dangerous. There is danger of explosion if the battery is replaced incorrectly or replaced with a battery of the wrong type. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer’s instructions or as required by local ordinance.

- Chapter 2

  “Assembly” section, Replace or update the following Warning/Caution text:

  Anchor the Equipment Rack Warning: Add the following text to this Warning: “The heaviest equipment should be installed at the bottom of the rack.”

Add the following Warning:

CIRCUIT OVERLOADING: Consider the current drain of equipment connected to the supply circuit and the effect of overloading of circuits might have on overcurrent protection and supply wiring. Refer to equipment nameplates for power and current ratings.

Replace the "Temperature Caution" text with the following text:

⚠ CAUTION

Temperature: If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than the room ambient temperature. The operating temperature of the server unit, when installed in an equipment rack, must not go below 5 °C (41 °F) or rise above 35 °C (95 °F). Extreme fluctuations in temperature can cause a variety of problems in your server. It is recommended that the ambient temperature for a rack-mount unit not exceed 25°C.

- Chapter 4

Replace the Lithium Battery Warning located in the "Replacing the Backup Battery" section with the following text:

⚠WARNING

Lithium batteries can be dangerous. There is danger of explosion if the battery is replaced incorrectly or replaced with a battery of the wrong type. Replace only with the same or equivalent type recommended by the equipment manufacturer. Discard used batteries according to manufacturer's instructions or as required by local ordinance.